13300 8001 US01

Attorney Docket No.: 43390-8001.US01

CERTIFICATE OF MAILING
hereby certify that this corre

hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450, on:

November 17, 2006

Steven Goldstein

ven Golastein

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: THOMSON ET AL.

APPLICATION No.: 10/667,027

FILED: SEPTEMBER 17, 2003

FOR: SIMULATION DRIVEN WIRELESS LAN PLANNING

EXAMINER: DESIR, PIERRE LOUIS

ART UNIT: 2617

CONF. No: 9124

<u>Information Disclosure Statement After First Office Action but</u> <u>Before Final Action or Notice of Allowance – 37 C.F.R. § 1.97(c)</u>

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

A. Timing of Submission

The information transmitted herewith is being filed *after* three months of the filing date of this application or after the mailing date of the first Office action on the merits, whichever occurred last, but *before* the mailing date of either a final action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, whichever occurs first. The references listed on the enclosed Form PTO-1449 (modified) may be material to the examination of this application; the Examiner is requested to make them of record in the application.

B. Cited Information

11/21/2006 MBELETE1 00000098 502207 10667027

01 FC:1806

180.00 DA

Attorney Docket No.: 43390-8001.US01

C. Effect of Information Disclosure Statement (37 C.F.R. § 1.97(h))

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

- D. Fee Payment (37 C.F.R. § 1.97(c)) or Certification (37 C.F.R. § 1.97(e))
 - Applicant elects to pay the fee under 37 C.F.R. § 1.17(p) \$180.00.
 - Please charge the above fee(s) to Deposit Account No. 50-02207.
- E. Patent Term Adjustment (37 C.F.R. § 1.704(d))
 - The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this statement. 37 C.F.R. § 1.704(d).

Respectfully submitted, Perkins Coje LLP

Date: November 17, 2006

William F. Ahmann

Registration No. 52,548

Correspondence Address:

Customer No. 22918
Perkins Coie LLP
P.O. Box 2168
Menlo Park, California 94026
(650) 838-4300

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

NOV 2 0. 2006

COMPLETE IF KNOWN			
Application Number	10/667,027		
Confirmation Number	9124		
Filing Date	September 17, 2003		
First Named Inventor	Thomson et al.		
Group Art Unit	2617		
Examiner Name	Desir, Pierre Louis		
Attorney Docket No.	43390-8001 US01		

Sheet

TO THE STREET	- ADER	<i>\$</i> /				
1	O NO.		<u> </u>	S. PATENT DOCUMENT		
Examiner Initials*	Cite No.		Code	Name of Patentee or Inventor of Cited Document	Publ. Appins. Date of Publication, Issue Date of Cited Document, or Filing Date of Applications.	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	2005/0059405		Thomson, et al.	9/03	
	2.	2005/0073980		Thomson et al.	4/05	
	3.	2005/0180358		Kolar et al.	8/05	
	4.	3,641,433		Mifflin et al.	2/72	
	5.	4,168,400		De Couasnon et al.	9/79	
	6.	4,176,316		DeRoas et al.	11/79	
	7.	4,247,908		Lockart et al.	1/81	
	8.	4,291,401		Bachmann	9/81	
	9.	4,291,409		Weinberg et al.	9/81	
	10.	4,409,470		Shepard et al.	10/83	
	11.	4,460,120		Shepard et al.	7/84	
	12.	4,475,208		Ricketts	10/84	
	13.	4,494,238		Groth, Jr.	1/85	
	14.	4,500,987		Hasegawa	2/85	
	15.	4,503,533		Tobagi et al.	3/85	· ·
	16.	4,550,414		Guinon et al.	10/85	
	17.	4,562,415		McBiles	12/85	
	18.	4,630,264		Wah	12/86	
	19.	4,635,221		Kerr	1/87	
	20.	4,639,914		Winters	1/87	
	21.	4,644,523		Horwitz	2/87	
	22.	4,672,658		Kavehrad	6/87	
	23.	4,673,805		Shepard et al.	6/87	
	24.	4,707,839		Andren et al.	11/87	
	25.	4,730,340		Frazier	3/88	
	26.	4,736,095		Shepard et al.	4/88	
	27.	4,740,792		Sagey et al.	4/88	
	28.	4,758,717		Shepard et al.	7/88	
	29.	4,760,586		Takeda	7/88	
	30.	4,789,983		Acampora et al.	12/88	

6

EXAMINER		DATE CONSIDERED
*EXAMINER	Initial if reference considered, whether or not criteria is in conform	mance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to application(s).

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Form PTO-1449 (Modified) (Use several sheets if necessary)

COMPLETE IF KNOWN			
Application Number	10/667,027		
Confirmation Number	9124		
Filing Date	September 17, 2003		
First Named Inventor	Thomson et al.		
Group Art Unit	2617		
Examiner Name	Desir, Pierre Louis		
Attorney Docket No.	43390-8001.US01		

					Examine Name	Desil, Flelle Lou	15
Sheet		2	of	6	Attorney Docket No.	43390-8001.US0	1
				0 DATENIT	DOGUMENTO		
	1	T	U.	S. PATENT	DOCUMENTS		
Examiner Initials*	Cite No.	U.S. Patent	or Application Kind Code (if known)		atentee or Inventor ed Document	Publ. Applns. Date of Publication, Issue Date of Cited Document, or Filing Date of Applications.	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	31.	4,829,540		Waggener et	: al.	5/89	
	32.	4,850,009		Zook et al.		7/89	
	33.	4,872,182		Mcrae et al.		10/89	
	34.	4,894,842		Brockhaven	et al.	1/90	
	35.	4,901307		Gilhousen et	al.	2/90	
	36.	4,933,952		Albrieux et a		6/90	
	37.	4,933,953		Yagi		6/90	
	38.	4,955,053		Simpson et a	1.	2/91	
	39.	5,008,899		Yamamoto		4/91	
	40.	5,029,183		Tymes		7/91	
	41.	5,103,459		Gilhousen et	al.	4/92	
	42.	5,103,461		Tymes		4/92	
	43.	5,109,390		Gilhousen et	al.	4/92	
	44.	5,142,550		Tymes		8/92	<u> </u>
	45.	5,151,919		Dent		9/92	
	46.	5,157,687		Tymes		10/92	
	47.	5,187,575		Dent et al.		2/93	
	48.	5,231,633		Hluchyj et al.		7/93	
	49.	5,280,498		Tymes et al.		1/94	
	50.	5,285,494		Sprecher et a	al.	2/94	
	51.	5,329,531		Diepstraten		7/94	
	52.	5,418,812		Reyes et al.		5/95	
	53.	5,479,441		Tymes et al.		12/95	
	54.	5,488,569		Huang et al.		9/95	··
	55.	5,450,615		Fortune et al		9/95	
	56.	5,465,401		Thompson		11/95	
	57.	5,479,441		Tymes et al		12/95	
	58.	5,483,676		Mahany et al		1/96	
	59.	5,491,644		Pickering et a	al	2/96	

DATE CONSIDERED EXAMINER *EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).

Lund

5/96

5,517,495

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Form PTO-1449 (Modified) (Use several sheets if necessary)

Sheet

of

COMPLETE IF KNOWN		
Application Number	10/667,027	
Confirmation Number	9124	
Filing Date	September 17, 2003	
First Named Inventor	Thomson et al.	
Group Art Unit	2617	
Examiner Name	Desir, Pierre Louis	
Attorney Docket No.	43390-8001.US01	

	_		U.	S. PATENT DOCUMENTS	S	
Examiner Initials*	Cite No.	U.S. Patent or	Application Kind Code (if known)	Name of Patentee or Inventor of Cited Document	Publ. Appins. Date of Publication, Issue Date of Cited Document, or Filing Date of Applications.	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	61.	5,519,762		Bartlett	5/96	
	62.	5,528,621		Heiman et al.	6/96	
	63.	5,561,841		Markus	10/96	
	64.	5,568,513		Croft et al.	10/96	
	65.	5,598,532		Liron	1/97	
	66.	5,630,207		Gitlin et al.	5/97	
	67.	5,640,414		Blakeney et al.	6/97	
	68.	5,649,289		Wang et al.	7/97	
	69.	5,668,803		Tymes et al.	9/97	
	70.	5,793,303	<u> </u>	Koga	8/98	, MAGE
	71.	5,794,128		Brockel et al.	8/98	
	72.	5,812,589		Sealander et al.	9/98	
	73.	5,815,811	-	Pinard et al.	9/98	
	74.	5,828,960		Tang et al.	10/98	
	75.	5,584,048		Wieczorek	12/96	
	76.	5,844,900		Hong et al.	12/98	
	77.	5,875,179		Tikalsky	1/99	
	78.	5,896,561		Schrader et al.	4/99	
	79.	5,915,214		Reece et al.	6/99	
	80.	5,920,821		Seazholtz et al.	7/99	
	81.	5,933,607		Tate et al.	8/99	
	82.	5,949,988		Feisullin et al.	9/99	
	83.	5,953,669		Stratis et al.	9/99	
i i	84.	5,960,335		Umemoto et al.	9/99	
	85.	5,982,779		Krishnakumar et al.	11/99	
	86.	5,987,062		Engwer et al.	11/99	
	87.	5,987,328		Ephremides et al.	11/99	
	88.	6,005,853		Wang et al.	12/99	
	89.	6,011,784		Brown	1/00	
	90.	6,078,568		Wright	6/00	

*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).

COMPLETE IF KNOWN 10/667,027 Application Number **INFORMATION DISCLOSURE** Confirmation Number 9124 STATEMENT BY APPLICANT September 17, 2003 Filing Date Form PTO-1449 (Modified) First Named Inventor Thomson et al. (Use several sheets if necessary) Group Art Unit 2617 Examiner Name Desir, Pierre Louis Sheet 4 of 6 Attorney Docket No. 43390-8001.US01

	, ,,,			U.	S. PATENT DOCUMENT	rs		
Examiner Initials*	Cite			ation d Code	Name of Patentee or Inventor of Cited Document	Publ. Appins. Date of Publication, Issue Date of Cited Document, or Filing Date of Applications.	Pages, Columns, Line Where Relevant Passage Relevant Figures Appe	es or
	91	6,08	88,591		Trompower	7/00		
	92	6,11	19,009	-	Baranger et al.	9/00		
'	93	0.40	99,032	B1	Anderson	3/01		
	94	1000	08,841		Wallace et al.	3/01		
	95	0.04	8,930		Katzenberg et al.	4/01		
	96		10,078		Kuhnel, et al.	8/98		
	97	0.04	10,083		Wright	5/01		
	98	0.05	6,334		Adachi	7/01		
	99	0.00	35,662		Watannabe	9/01		
	10	0.00	86,035		Somoza et al	1/02		
	10	6,35	6,758	B1	Almeida et al.	3/02		
	10	6,39	3,290	B1	Ulfongene	5/02		
	10	0.40)4,772	B1	Beach et al.	6/02		
	10	4, 6,47	' 3,449	B1	Cafarella et al.	10/02		
	10		3,679	B1	Rappaport et al.	12/02		
	10	1	6,290	B1	Lee	12/02		
	10	1	30,700	B1	Pinard et al.	6/03		
	10	1 0 00	25,454	B1	Rappaport et al.	9/03		
	10		7,961		Ahmed, et al.	04/11/00		
				F	OREIGN PATENT DOCUMENT	S		
Examiner Initials*	Cite No.	Fore	eign Patent or App	lication Kind Co (if know	I	Date of Publication Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
	110.	PCT	WO94/0398	6	WIPO	2/94		
	111.	PCT	WO99/1100)3	WIPO	3/99		

EXAMINER		DATE CONSIDERED
*EXAMINER:	Initial if reference considered, whether or not criteria is in conform	nance with MPEP 609. Draw line through citation if not in conformance and not

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Form PTO-1449 (Modified) (Use several sheets if necessary)

of

Sheet

COMPLETE IF KNOWN					
Application Number	10/667,027				
Confirmation Number	9124				
Filing Date	September 17, 2003				
First Named Inventor	Thomson et al.				
Group Art Unit	2617				
Examiner Name	Desir, Pierre Louis				
Attorney Docket No.	43390-8001.US01				

		OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	т
	112.	Acampora and Winters, IEEE Communications Magazine, 25(8):11-20 (1987).	
	113.	Acampora and Winters, IEEE Journal on selected Areas in Communications. <u>SAC-5</u> :796-804 (1987).	
	114.	Bing and Subramanian, IEEE, 1318-1322 (1997).	
		Durgin, et al., "Measurements and Models for Radio Path Loss and Penetration Loss in and Around Homes and Trees at 5.85 GHz", IEEE Transactions on Communications, vol. 46, No. 11, Nov. 1998.	
	116.	Freret et al., Applications of Spread-Spectrum Radio to Wireless Terminal Communications", Conf. Record, Nat'l Telecom. Conf., Nov. 30- Dec. 4, 1980.	
		Fortune et al., IEEE Computational Science and Engineering, "Wise Design of Indoor Wireless Systems: Practical Computation and Optimization", pg. 58-68 (1995).	
	118.	Geier, Jim, Wireless Lans Implementing Interoperable Networks, Chapter 3 (pp. 89-125) Chapter 4 (pp. 129-157) Chapter 5 (pp. 159-189) and Chapter 6 (pp. 193-234), 1999, United States.	
	119.	Ho et al., "Antenna Effects on Indoor Obstructed Wireless Channels and a Deterministic Image-Based Wide-Based Propagation Model for In-Building Personal Communications Systems", International Journal of Wireless Information Networks, vol. 1, No. 1, 1994.	
	120.	***	
	121.		
	122.	LAN/MAN Standars Committee of the IEEE Computer Society, Part 11:Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications:Higher Speed Physical Layer Extension in the 2.4 GHz Band, IEEE Std. 802.11b (1999).	
	123.	Okamoto and Xu, IEEE, Proceeding so of the 13 th Annual Hawaii International Conference on System Sciences, pp. 54-63 (1997).	
	124.	Panjwani et al., "Interactive Computation of Coverage Regions for Wireless Communication in Multifloored Indoor Environments", IEEE Journal on Selected Areas in Communications, vol. 14, No. 3, Apr. 1996.	
	125.	Perram and Martinez, "Technology Developments for Low-Cost Residential Alarm Systems", Proceedings 1977 Carnahan Conference on Crime Countermeasures", April 6-8, pp. 45-50 (1977).	

EXAMINER		DATE CONSIDERED
*EXAMINER:	Initial if reference considered, whether or not criteria is in conform	nance with MPEP 609. Draw line through citation if not in conformance and not
	considered. Include copy of this form with next communication t	o application(s).

COMPLETE IF KNOWN Application Number 10/667,027 **INFORMATION DISCLOSURE** Confirmation Number 9124 **STATEMENT BY APPLICANT** Filing Date September 17, 2003 Form PTO-1449 (Modified) First Named Inventor Thomson et al. (Use several sheets if necessary) Group Art Unit 2617 **Examiner Name** Desir, Pierre Louis 6 6 Sheet of Attorney Docket No. 43390-8001.US01

		OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	Т
	126.	Piazzi et al., "Achievable Accuracy of Site-Specific Path-Loss Predictions in Residential Environments", IEEE Transactions on Vehicular Technology, vol. 48, No. 3, May 1999.	
	127.	Seidel et al., "Site-Specific Propagation Prediction for Wireless In-Building Personal Communications System Design", IEEE Transactions on Vehicular Technology, vol. 43, No. 4, Nov. 1994.	
	128.	Skidmore et al., "Interactive Coverage Region and System Design Simulation for Wireless Communication Systems in Multi-floored Indoor Environments, SMT Plus" IEEE ICUPC '96 Proceedings (1996).	
	129.	Ullmo et al., "Wireless Propagation in Buildings: A Statistic Scattering Approach", IEEE Transactions on Vehicular Technology, vol. 48, No. 3, May 1999.	

EXAMINER		DATE CONSIDERED	
*EXAMINER:	Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not		
	considered. Include copy of this form with next communication to application(s).		